

The diagram illustrates the energy levels of a system. It features three horizontal lines representing energy bands: the top line is labeled 'Conduction band', the middle line is labeled 'Local electron level', and the bottom line is labeled 'Valence band'. A vertical double-headed arrow on the left side spans the energy difference between the conduction and valence bands and is labeled 'Band gap'. On the 'Local electron level' line, there is a solid black dot. On the 'Valence band' line, there are two open circles. A vertical dashed line with an arrow points from the solid dot on the 'Local electron level' down to the first open circle on the 'Valence band'. This transition is labeled 'Re-coupling'.